

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

ORIGINAL
(Red)EFFECT: Sampling at Artesian Water Company, Llangollen
Wellfield and Amoco Chemical Company

DATE: May 20, 1977

FROM: Victor Guide (3SA21) *Wic*
Civil Engineer, Annapolis Field OfficeTO: Larry S. Miller (3SA60)
Chief, Water Quality Monitoring BranchTHRU: Orterio Villa Jr. (3SA20)
Director, Annapolis Field Office

At the request of the Water Supply Branch, water samples were collected on May 19, 1977 from two (2) Amoco Chemical Company Wells, five (5) Artesian Water Company Wells, one (1) Finished Water Station at the Artesian Water Company and one (1) Test Well from the Llangollen Land-fill. Three of these sampling locations were not in the original plan as outlined in the memo dated May 17, 1977 regarding survey objectives. These three stations (Artesian #RW-3, Artesian Midvale #1 and Llangollen #S-1) were last minute suggestions by Dr. Foppe B. DeWalle, Stanford University. Dr. DeWalle accompanied the EPA/State of Delaware team and took samples at each station using his own sample bottles. The AFO crew took a duplicate set of samples from each of the originally planned stations (Amoco Chemical Company Wells #PW-1 and #PW-2; Artesian Water Company Wells #7, #2, and #6-3; and a Finished Water Station). One set of these samples was shipped to Dr. William Cudde, ESSL, via TWA Flight #543 from Philadelphia at 1230 on May 19, 1977. One set of samples were delivered to AFO via government vehicle on May 19, 1977 at 1415. Water samples from #RW-3, Artesian Midvale #1 and Llangollen #S-1 were taken by AFO and Dr. DeWalle. These samples were not shipped to ESSL - only AFO received these samples.

Further details of the sampling program are as follows:

LOCATION: Artesian Water Company
Llangollen Wellfield and
Amoco Chemical CompanySOURCE REPRESENTATIVES: Artesian Water Company - James Harrington
Amoco Chemical Company - Albert Smith

STATE OF DELAWARE REPRESENTATIVE: Ronald Schofer

EPA REPRESENTATIVES: Charles Kleeman, Water Supply Branch
Victor Guide, Annapolis Field Office
Ronald Jones, Annapolis Field OfficeDATE/TIME OF ARRIVAL: at Amoco Chemical Company - 0830
at Artesian Water Company - 0930

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ORIGINAL
(Red)

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| SAMPLING: | <u>Date</u> | <u>Time</u> | <u>Location</u> |
|-----------|-------------|-------------|----------------------------------------|
| | 5/19/77 | 0855 | Amoco Chemical Company, Well #PW-1 |
| | 5/19/77 | 0905 | Amoco Chemical Company, Well #PW-3 |
| | 5/19/77 | 0930 | Artesian Water Company, Finished Water |
| | 5/19/77 | 0940 | Artesian Water Company, Well #7 |
| | 5/19/77 | 0945 | Artesian Water Company, Well #2 |
| | 5/19/77 | 1005 | Artesian Water Company, Well #G-3 |
| | 5/19/77 | 1035 | Artesian Water Company, Well #RW-3* |
| | 5/19/77 | 1100 | Artesian Water Company, Midvale #1* |
| | 5/19/77 | 1130 | Llangollen Landfill, Well #S-1** |

At each of these stations samples were collected in triplicate using pre-washed, muffled, 50 ml serum bottles with zero-dead volume and Teflon faced septum. Each sample will be analyzed for the following organic parameters:

| | | |
|-------------------|------------------------|---------------|
| (1) Acetone | (5) Dichloroethane | (9) Di-Hexane |
| (2) Benzene | (6) Hexane - 1 | (10) Toluene |
| (3) Chlorobenzene | (7) Methyl Pentane | |
| (4) Chloroform | (8) Methylene Chloride | |

* These stations were not in the original plan; samples from these stations were delivered only to AFO.

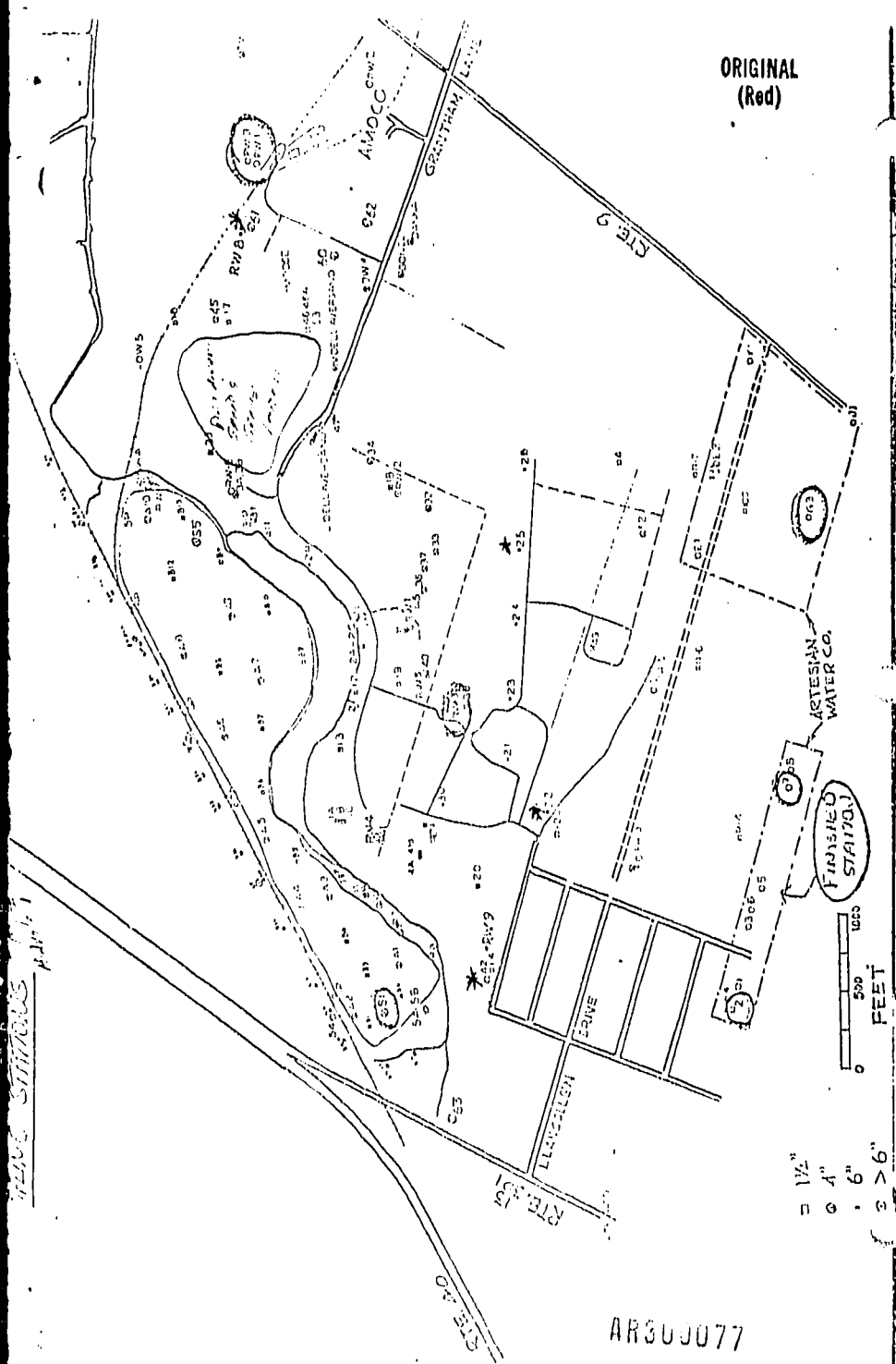
** Samples were obtained with a bailer operative by Ron Schofer - the well was "bailed" twenty times (2 gallons per bail) prior to sampling.

Upon completion of VOA a final report will be prepared.

cc: J. Gary Gardner
Thomas O. Hanson
Charles Kleeman

Enclosure

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(Red)

FINISHED
STATION

0 500 1000
FEET

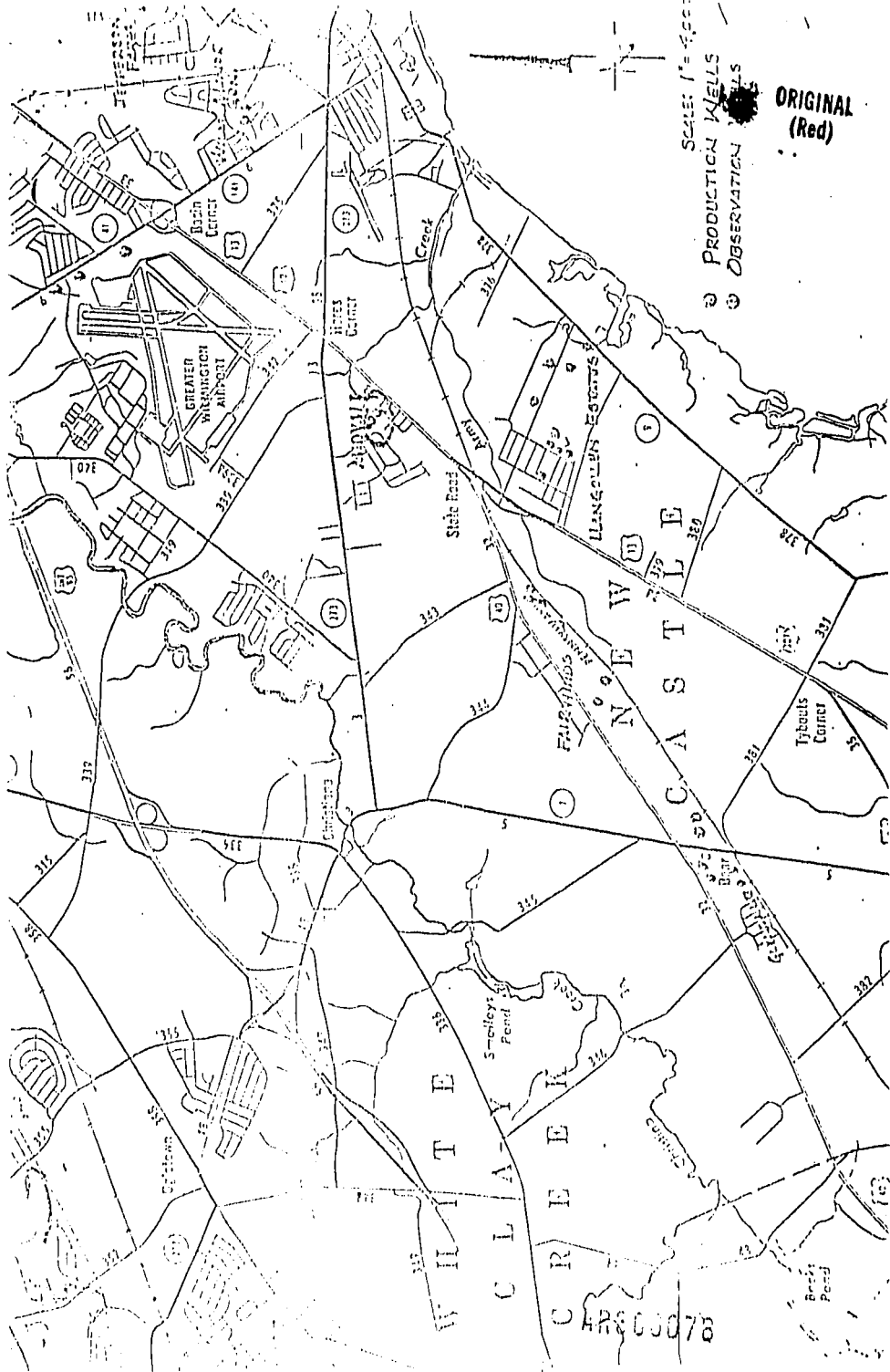
1 1/2"
0 4"
0 6"
3 > 6"

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Scale: 1" = 400'

PRODUCTION WELLS
OBSERVATION WELLS

ORIGINAL
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